



राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

NATIONAL INSTITUTE OF TECHNOLOGY DELHI

(शिक्षा मंत्रालय, भारत सरकार के तत्वावधान में राष्ट्रीय महत्व का संस्थान)

(An Institute of National Importance under the aegis of Ministry of Education (Shiksha Mantralaya), Govt. of India)

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कार्यालय आदेश/Office Order

विषय: I-STEM के माध्यम से NIT दिल्ली में अनुसंधान उपकरणों के उपयोग की निगरानी हेतु समिति के गठन के संबंध में / Sub: Formation of committee to monitor utilization of research equipment at NIT Delhi through I-STEM-reg.

I-STEM (इंडियन साइंस, टेक्नोलॉजी एंड इंजीनियरिंग फैसिलिटीज मैप) के माध्यम से NIT दिल्ली में अनुसंधान उपकरणों के उपयोग की निगरानी हेतु निम्नलिखित समिति का गठन किया जाता है।

The following committee is constituted to monitor the utilization of research equipment at NIT Delhi through I-STEM (The Indian Science, Technology, and Engineering Facilities Map).

S.No.	Category	Name/ Designation	Access Level
1.	Institute Representative	Dr. Tirupathiraju Kanumuri Associate Professor, EE Nodal officer I-STEM	Access to all the Departments in the Institute.
2.	Department Representative	Head of the Departments	Access to the concerned Department.
3.	Faculty in-charge	Faculty lab in-charge	Access to concerned facility(ies)/Lab(s).
4.	Facility coordinator	Inventor of equipment	Access to concerned facility/Lab
5.	Equipment operator	Lab TA/Technician	Access to mapped/assigned Equipment.

मुख्य लाभ एवं अन्य विस्तृत जानकारी सभी संबंधितों की जानकारी हेतु अगले पृष्ठ पर उल्लिखित है।

The key benefits and more details are mentioned overleaf for the information of all the concerned.

यह आदेश सक्षम प्राधिकारी के अनुमोदन से जारी किया जा रहा है।

This issues with the approval of the Competent Authority.

Chand
05/10/2026
कुलसचिव (प्रभारी)
Registrar (I/c)

प्रति/Copy to:

- निदेशक के निजी सहायक /P.A. to Director (for kind information of Hon'ble Director)
- सभी संबंधित अधिकारी / All Concerned Officials
- कुलसचिव कार्यालय/Office of Registrar
- सभी अधिष्ठाता /विभागाध्यक्ष /अनुभाग अधिकारी /All Deans/HoDs/Section Heads
- सभी संकाय और गैर-संकाय सदस्य/ All Faculty and Non-Faculty members

Key Benefits of this Framework inside NITs

- **Reduces Redundancy:** Prevents multiple departments within the same NIT from purchasing identical, hyper-expensive machinery.
- **Financially Self-Sustaining:** The user fee model helps technical labs cover operational overheads and repair costs.

1. Governance and Institutional Framework

The operational and organizational structure within an NIT follows a top-down administrative hierarchy combined with collaborative, cross-departmental coordination:

- **National Level (The Apex):** The Office of the Principal Scientific Adviser (OPSA) and the I-STEM National Project Management Unit (typically managed out of IISc Bengaluru) provide the overall policy, digital infrastructure, and compliance guidelines.
- **Institute Level (The Director & Dean R&C):** The Director of the respective NIT, alongside the Dean of Research & Consultancy (R&C), serves as the primary administrative authority. They oversee the mandate that all publicly funded equipment must be listed on the I-STEM portal.
- **Nodal Officer / Coordinator:** Every NIT appoints an Institutional I-STEM Nodal Officer (usually a senior faculty member from an engineering or science stream). This individual acts as the direct liaison between the institute and the national I-STEM team, managing the institute's overall digital dashboard.
- **Departmental & Lab Level:** Heads of Departments (HoDs) and designated Lab In-charges (Faculty/Technical Staff) are assigned individual login credentials. They are responsible for uploading technical specifications, operating status, user charges, and managing active slots for specific instruments

2. The Operational Workflow

The day-to-day operation of the framework relies heavily on a synchronized digital-to-physical workflow:

Step 1: Inventory & Rate Standardization

- Each department audits its laboratories to identify advanced, high-value equipment. The Lab In-charges log into the portal to upload data, including the machine's technical capabilities, geographic location, and usage rates. Rates are standardized based on user category (e.g., internal NIT students, external academic researchers, or industry/startups).

Step 2: Discovery and Slot Booking

- External or internal researchers log into the national I-STEM portal, search for required equipment, and view its availability at the specific NIT. The user submits a formal booking request, detailing their sample specifications and preferred dates.

Step 3: Approval and Operations

- The request route goes to the respective Lab In-charge or Nodal Officer at the NIT.
- Ownership stays local: The equipment ownership and the ultimate authority to approve or deny requests remain fully with the host NIT laboratory.
- Assisted Testing: Once approved, the external user either sends their samples or visits the facility. The equipment is always operated by trained host laboratory technicians or staff to avoid damage to sensitive components.

Step 4: Revenue & Maintenance Cycle

- Payments are processed via secure online gateways connected to the portal. The revenue generated from external bookings is channelled back into the institute's account, which is typically utilized for the maintenance, MC (Annual Maintenance Contracts), and consumables of those specific high-end instruments.